MSX1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MSX1, Polyclonal Antibody
Full Product Name	MSX1 (Center) Rabbit pAb
Product Gene Name	anti-MSX1 antibody
Product Synonym Names	Homeobox protein MSX-1; Homeobox protein Hox-7; Msh homeobox 1-like protein; MSX1; HOX7
Clonality	Polyclonal
Isotype	Ig
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied in PBS with 0.09% (W/V) Sodium Azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Affinity Purified
OMIM	phenotype 608874
3D Structure	ModBase 3D Structure for P28360
Immunogen	This MSX1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 111-138 amino acids from the central region of human MSX1.
Cellular Localization	Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MSX1 antibody	Western Blot (WB), Immunocytochemistry (ICC)
Application Notes for anti-MSX1 antibody	WB: 1:2000 ICC: 1:10-50
Related Product Information for anti-MSX1 antibody	MBS8556992 is an antibody targeting MSX1. Also known as MSX1 (Center) Rabbit pAb. Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-MSX1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MSX1. It may not necessarily be applicable to this product.

NCBI GI #	118582284
NCBI GeneID	4487
NCBI Accession #	NP_002439.2
UniProt Primary Accession #	P28360
UniProt Related Accession #	P28360
GenBank Nucleotide #	NP_002439.2

NCBI Official Full Name	homeobox protein MSX-1
NCBI Official Synonym Full Names	msh homeobox 1
NCBI Official Symbol	MSX1
NCBI Official Synonym Symbols	HOX7; HYD1; ECTD3; STHAG1
UniProt Protein Name	Homeobox protein MSX-1
UniProt Synonym Protein Names	Homeobox protein Hox-7; Msh homeobox 1-like protein
Protein Family	Homeobox protein
UniProt Gene Name	MSX1
UniProt Synonym Gene Names	HOX7
UniProt Entry Name	MSX1_HUMAN
NCBI Protein Information	homeobox protein MSX-1
NCBI Summary for MSX1	This gene encodes a member of the muscle segment homeobox gene family. The encoded protein functions as a transcriptional repressor during embryogenesis through interactions with components of the core transcription complex and other homeoproteins. It may also have roles in limb-pattern formation, craniofacial development, particularly odontogenesis, and tumor growth inhibition. Mutations in this gene, which was once known as homeobox 7, have been associated with nonsyndromic cleft lip with or without cleft palate 5, Witkop syndrome, Wolf-Hirschom syndrome, and autosomoal dominant hypodontia. [provided by RefSeq, Jul 2008]
UniProt Comments for MSX1	MSX1: Acts as a transcriptional repressor. May play a role in limb-pattern formation. Acts in cranofacial development and specifically in odontogenesis. Expression in the developing nail bed mesenchyme is important for nail plate thickness and integrity. Expressed in the developing nail bed mesenchyme. Belongs to the Msh homeobox family. Protein type: Motility/polarity/chemotaxis; DNA-binding Chromosomal Location of Human Ortholog: 4p16.2 Cellular Component: nucleoplasm; transcription factor complex; cytoplasm; nucleus Molecular Function: p53 binding Biological Process: embryonic forelimb morphogenesis; negative regulation of striated muscle cell differentiation; transcription from RNA polymerase II promoter; muscle development; protein stabilization; in utero embryonic development; regulation of odontogenesis; mesenchymal cell proliferation; cell morphogenesis; negative regulation of transcription from RNA polymerase II promoter; palate development; middle ear morphogenesis; embryonic hindlimb morphogenesis; odontogenesis of dentine-containing teeth; anterior/posterior pattern formation; negative regulation of cell proliferation; pituitary gland development; midbrain development; positive regulation of transcription from RNA polymerase II promoter; positive regulation of DNA damage response, signal transduction by p53 class mediator; negative regulation of cell growth; positive regulation of BMP signaling pathway; negative regulation of apoptosis Disease: Orofacial Cleft 5; Witkop Syndrome; Tooth Agenesis, Selective, 1
Research Articles on MSX1	**1.** The Msx1 gene was widely expressed in mouse craniofacial structures from embryonic day (E)8.5-E10.5. Taken together, the study indicates that MSX1 rs12532 is associated with the risk of non-syndromic orofacial clefts (NSOCs). [review]
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